SONY

3-751-430-21 (2)

Compact Disc Player

Operating Instructions

COMPACT disc DIGITAL AUDIO

CDP-C305
~~CDP-C205~~
CDP-C201
~~CDP-C301M~~

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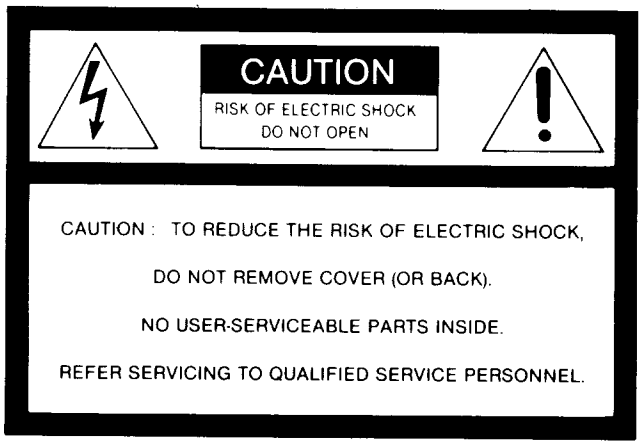
Owner's Record

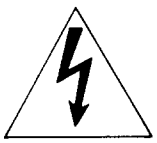
The model and serial numbers are located at the rear. Record these numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

Warning

To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION
The use of optical instruments with this product will increase eye hazard.

Information

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna
Relocate the equipment with respect to the receiver
Move the equipment away from the receiver
Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems".

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

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This indicates a function operated only from the remote commander.

This indicates a function operated only on the main unit.

Introduction

- **4 TIMES OVERSAMPLING DIGITAL FILTER compact disc player (DUAL D/A CONVERTER SYSTEM)** This unit is equipped with 5 disc trays which allow you to choose from a large number and wide variety of selections.
  Any disc at any time can be played using the DISC 1 to 5 buttons (CDP-C305 only).
- **Shuffle play** (page 10)
  Once a selection is played, it will not be played once more until the random order is completed.
- **Music scan** (page 11)
  You can check the selections by scanning the beginning of each selection. (CDP-C305 only)
- **Program play** (page 12)
  Up to 32 steps of program is possible from the 5 discs.
- **Time fade** (page 14)
  You can stop the play, fading out at the time desired.
- **Fading in/Fading out** (page 14)
  You can begin a selection fading in and end it fading out. (CDP-C305 only)

Differences by Model and Area

This instruction manual covers CDP-C305, CDP-C205, CDP-C201, and CDP-C301M. Their performance and operation are identical except for the following:

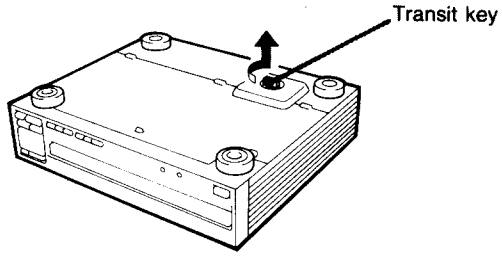
- The CDP-C205, C201 and CDP-C301M are not supplied with a remote commander. They do not have those functions activated only by remote commander, which are indicated with [i] mark in this instruction manual.
- The CDP-C201 and CDP-C301M do not have a PHONES (headphones) jack and a LEVEL control.
- The CDP-C301M only have a TIMER switch.

The illustrations used in this manual are of the CDP-C305.

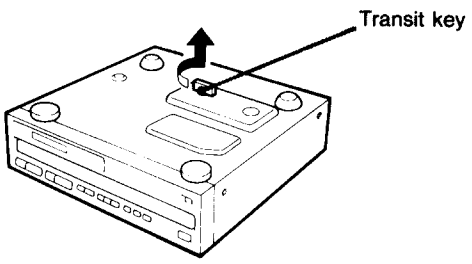
Note on the Transit Key

The white transit key on the bottom exterior of the unit protects the optical system against shock during transportation. Before operating the CD player, be sure to remove the key by following the instructions on the label, and store it in a safe place.
When transporting the unit, replace the key in its original hole and lock it in place.

CDP-C305/C205/C201



CDP-C301M



Precautions

On safety

- Check the unit's operating voltage before operation. It must be identical with that of your local power supply.
- Should any liquid or solid object fall into the cabinet. Unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it will not be used for a long time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.
- As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

On operation

When the unit is not used, turn the power off, to conserve energy and to extend the useful life of your unit.

For detailed safety precautions, see the leaflet "IMPORTANT SAFEGUARDS".

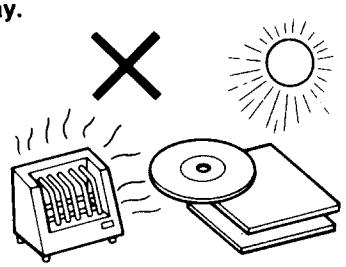
If you have any questions or problems concerning your unit, please contact you nearest Sony dealer.

Installation

Placing Your Unit

- Place the unit in a location with adequate air circulation to prevent internal heat buildup in the unit.
- Do not place the unit on a soft surface, such as a rug that would block the ventilation holes on the bottom.
- Do not install the unit.
  - near heat sources such as radiators or air ducts.
  - in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

Not this way.



On moisture condensation

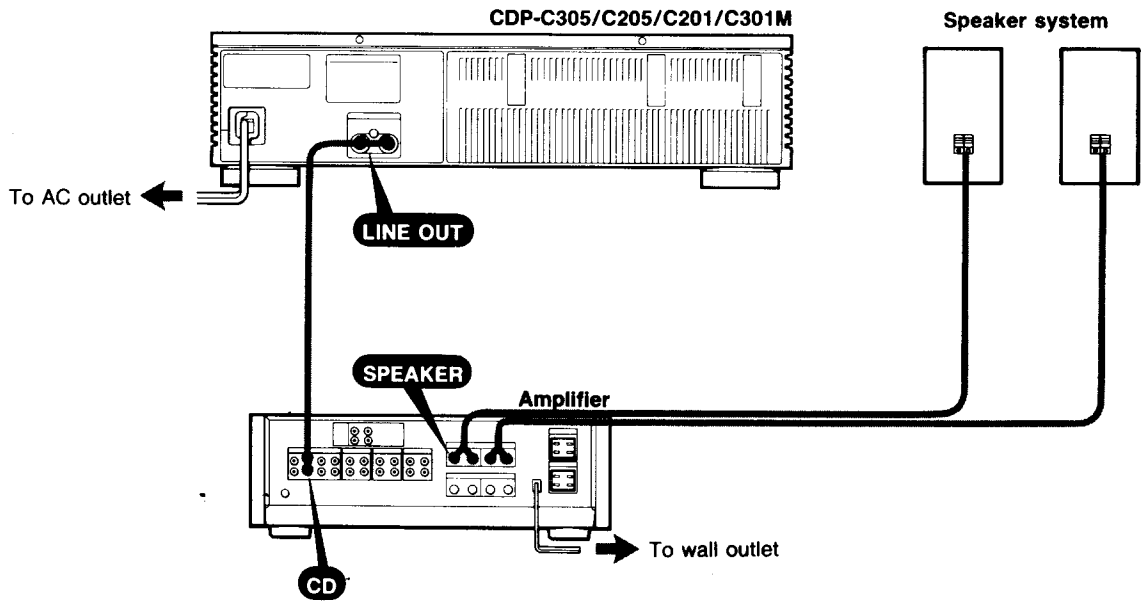
If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the unit. Should this occur, the player will not operate. In this case, remove the disc and leave the player turned on for about an hour until the moisture evaporates.

Connections

For Correct Connections

- Turn off the power of each unit before making connections.
- Connect the AC power cord last.
- Be sure to insert the plugs firmly into the jacks. Loose connection may cause hum and noise.
- Leave a little slack in the connecting cord to allow for inadvertent shock or vibration.
- Cord plugs and jacks are color coded: Red plugs and jacks are for the right channel (R) and white ones for the left channel (L).

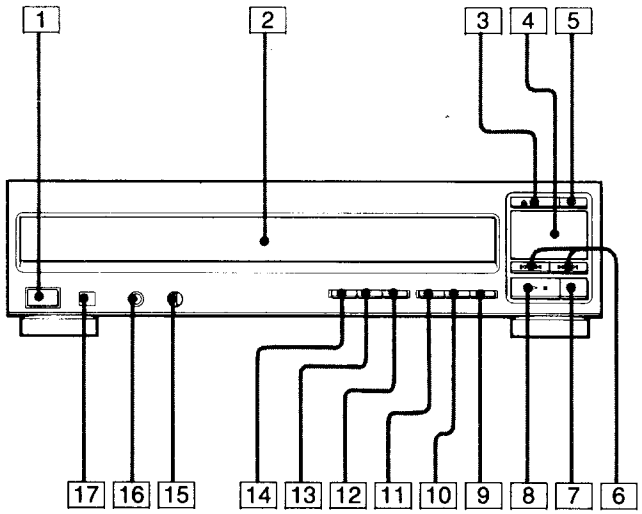
To Connect to an Amplifier



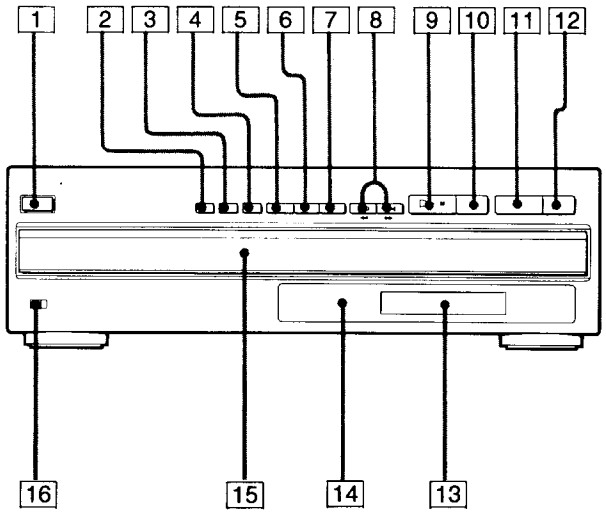
Location of Controls

Front Panel

CDP-C305/C205/C201



CDP-C301M



Refer to the pages indicated in ● for details.

CDP-C305/C205/C201

1 POWER switch ❽
2 Disc tray ❽
3 ⏏ OPEN/CLOSE button ❽
4 Display window
5 DISC SKIP button ❽
6 ⏮ ◀◀/▶▶ ⏭ (AMS*/RMS**/ manual search) buttons ❾
7 ■ (stop) button ❽
8 ▶❙❙ (play/pause) button ❽
9 PROGRAM button ⓬
10 SHUFFLE button ⓫
11 CONTINUE button ❽
12 TIME FADE button ⓮
13 REPEAT button ⓫
14 TIME button ❾
15 (Headphones) LEVEL control ❽
16 HEADPHONES jack
17 Remote sensor

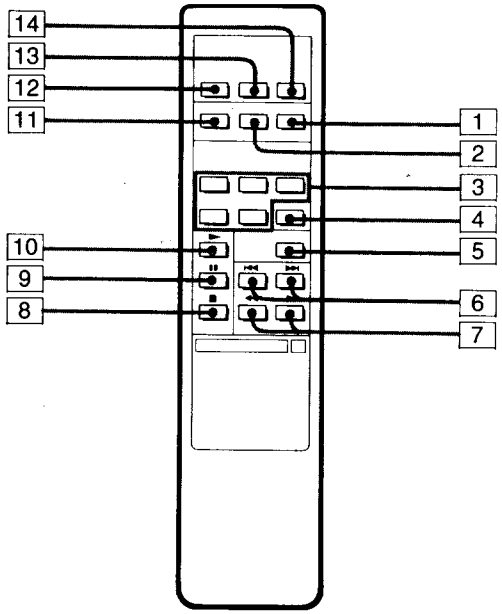
CDP-C301M

1 POWER switch ❽
2 TIME button ❾
3 REPEAT button ⓫
4 TIME FADE button ⓮
5 CONTINUE button ❽
6 SHUFFLE button ⓫
7 PROGRAM button ⓬
8 ⏮ ◀◀/▶▶ ⏭ (AMS*/RMS**/ manual search) buttons ❾
9 ▶❙❙ (play/pause) button ❽
10 ■ (stop) button ❽
11 ⏏ OPEN/CLOSE button ❽
12 DISC SKIP button ❽
13 Display window
14 Remote sensor
15 Disc tray ❽
16 TIMER switch ⓮

* AMS is the abbreviation of Automatic Music Sensor.
** RMS is the abbreviation of Random Music Sensor.

Remote Commander

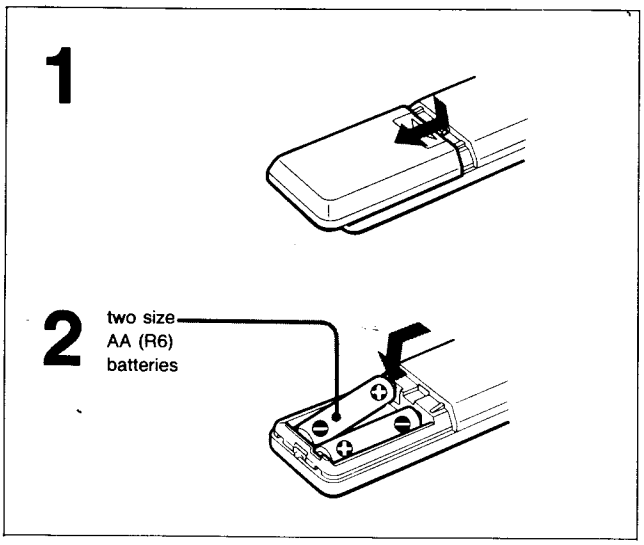
(CDP-C305 only)



Refer to the pages indicated in ● for details.

1 MUSIC SCAN button ⓫
2 REPEAT button ⓫
3 DISC 1 – 5 buttons ❾
4 DISC SKIP button ❽
5 FADER button ⓮
6 ⏮ ⏭ (AMS*) buttons ❾
7 ◀◀ ▶▶ (manual search) buttons ❾
8 ■ (stop) button ❽
9 ❚❚ (pause) button ❽
10 ▶ (play) button ❽
11 TIME button ❾
12 CONTINUE button ❽
13 SHUFFLE button ⓾
14 PGM (program) button ⓬

Installing Batteries in the Remote Commander



On battery life

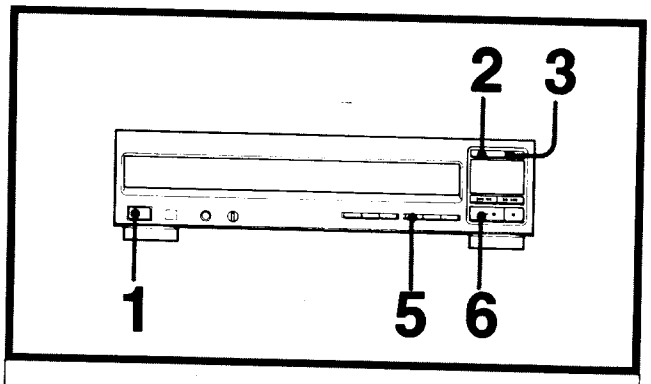
- About half a year of normal operation can be expected when using the Sony SUM-3(NS) batteries.
- When the batteries are run down, the remote commander will not operate the unit. In this case, replace both batteries with new ones.

Notes on the remote commander and remote control operation

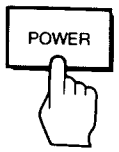
- Keep the commander away from extremely hot or humid places.
- Avoid dropping any foreign objects into the commander casing, particularly when replacing the batteries.
- Avoid exposing the remote sensor to direct sunlight or lighting apparatus. Such exposure can cause a malfunction.
- To avoid damage caused by battery leakage and corrosion, remove the batteries when the commander will not be used for a long time.

Playing a Disc

Before playing a disc, turn on the amplifier and set the input selector to the CD player position.



1



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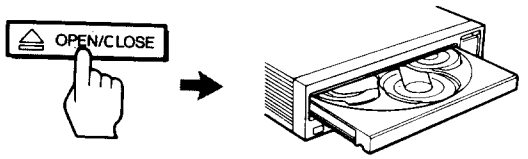
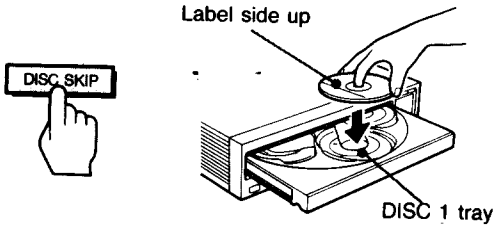
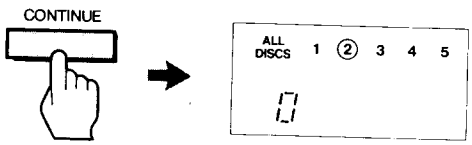


3

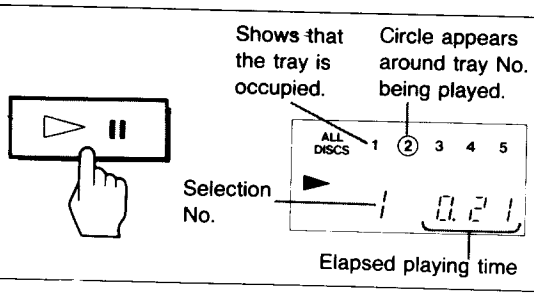


4 To play more than one disc, repeat step 3 to put additional discs in the desired order.

5 Choose whether to play "1 DISC" or "ALL DISCS".



6


Shows that the tray is occupied.
Circle appears around tray No. being played.
ALL DISCS 1 2 3 4 5
Selection No.
Elapsed playing time

To stop play

To stop for a moment during play, press ▶II (or II on the remote commander). Press again to resume play.
To stop play, press ■.
To stop play and open the tray, press ⏏.

Caution on adjusting volume
Do not turn up the volume while listening to a portion with very low level inputs or no audio signals. If you do the speakers may be damaged when a peak level portion is played.

To listen with the headphones

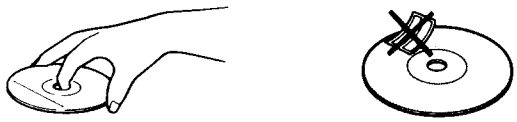
Connect the headphones and control the volume with the LEVEL control. (for CDP-C305/C205 only)

Note on the TIMER switch

Leave the TIMER switch off when not setting timer activated play. (for CDP-C301M only)

Notes on handling discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.



- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as temperature may rise considerably.
- After playing, store the disc in its case.

To play an 8 cm (3-inch) CD

Place it on the inner circle of the tray. If the disc is provided with an adaptor, first remove it. Do not put a normal CD (12 cm/5-inch) on top of an 8 cm CD.

Notes

- The tray number of an empty tray will be displayed until the empty tray number is set to play. Once it is recognized as empty, it will disappear.
- If there are no discs at all in the trays when played, "no disc" will be indicated.

Information Display

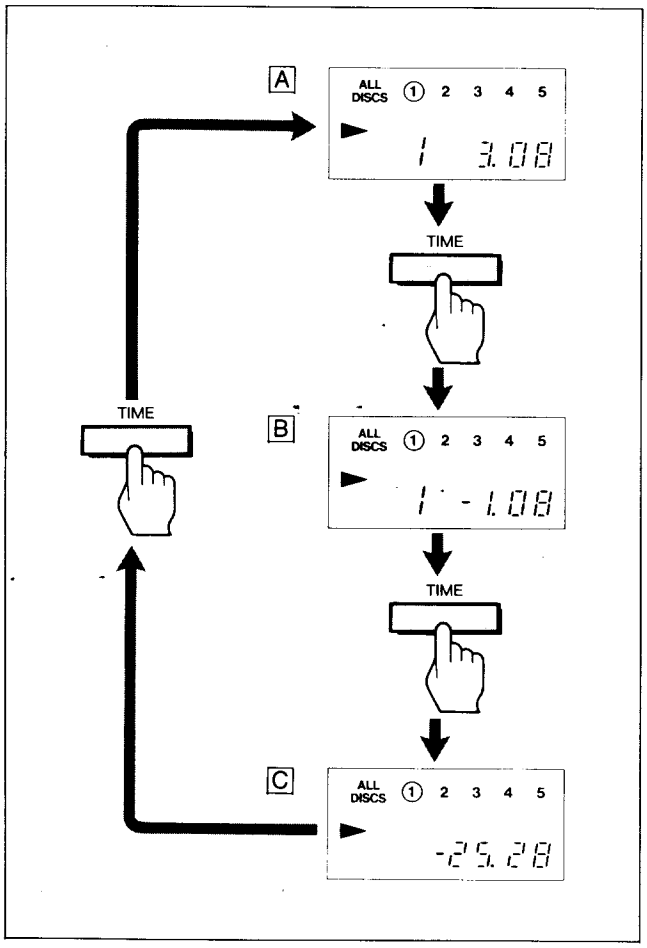
If you press press ⏏ or the compartment itself to close the compartment, the total number of selections and the total playing time of the disc to be played are displayed for a few seconds.

Each time you press TIME during play, the display changes to give you the following information.

A Elapsed time in a selection (automatically displayed when play begins)

B Remaining time in a selection
"-- --.--" indication will appear in the display window instead of the actual time if a selection numbered 21 or higher is selected.

C Remaining time of the disc



Notes

- Total remaining time is only available during continuous mode. If will not be displayed by pressing the TIME button during program or shuffle mode.
- Total remaining time will be displayed, if time fade is set during program or shuffle.

Selecting a Desired Disc

By using the DISC 1 to 5 buttons or the DISC SKIP button during play, you can locate the beginning of any disc.

To select a particular disc (for CDP-C305 only)	Press the corresponding DISC 1 to 5 button.
To move to the disc tray next to the current one	Press DISC SKIP button.

Locating a Particular Selection

Locating a selection in sequence (Automatic Music Sensor)
You can locate the beginning of a selection on the disc being played.

To locate the beginning of the selection being played	Press ⏮ ◀◀ once.
To locate the beginning of the next selection	Press ▶▶ ⏭ once.

Continue to press until the selection you want is located.

Note (for CDP-C305 only)
You can operate this function on the remote commander. Press ⏮/⏭.

Locating a Particular Point in a Selection

Locating a point in sequence (Manual Search)
You can locate a particular point in a selection during play by monitoring the high-speed sound.

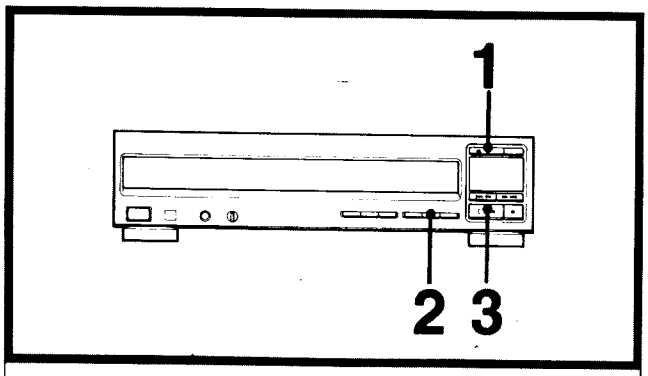
To go back at high speed	Keep ⏮ ◀◀ pressed.
To go ahead at high speed	Keep ▶▶ ⏭ pressed.

Release the button when you reach the point in the selection you want.

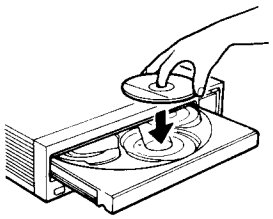
Note (for CDP-C305 only)
You can operate this function on the remote commander. Keep ◀◀/▶▶, pressed.

To locate at a higher speed
Press ⏮ ◀◀ or ▶▶ ⏭ in the pause mode. Search speed will increase three times, but there will be no sound. Find the desired point by watching the numbers in the display.

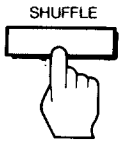
Playing in a Random Order – Shuffle Play



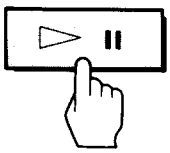
1



2 Decide whether to shuffle between all discs or one, depending on the number of discs inserted.
To shuffle "ALL DISCS", press once.
To shuffle "1 DISC", press twice.



3



You can have the selections (up to 99) played in a random order. The unit will play all the discs or just one disc you desire.
Once a selection is played, it will not be played again until the random order is completed.

To stop playing
Press ■.

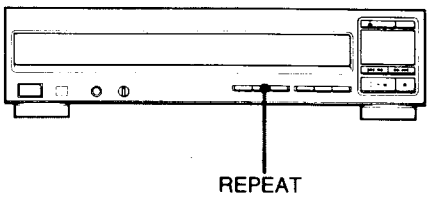
To cancel shuffle play
Press CONTINUE and return to the continuous playing mode.

To change from program or continuous play to shuffle play
Press SHUFFLE during program or continuous play. The program mode will be cleared and shuffle play will begin from the current selection being played.

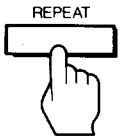
What is this indication?

This indication appears while the player is "shuffling" the selections.

Playing Repeatedly – Repeat Play



Press before or during play.

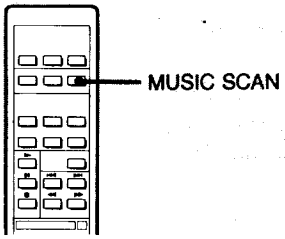


"REPEAT" is displayed.

You can repeat a single disc or all the discs.
The unit repeats the current playing mode.

To cancel repeat play
Press REPEAT again.
"REPEAT" disappears.

Scanning Selections – Music Scan (for CDP-C305 only)



Press during stop.

► blinks, and each selection plays for approximately 12 seconds and fades out, scanning play starts the next disc or selection.

You can check the selections by scanning the beginning of each selection on the disc.
You can use this function in any play mode.

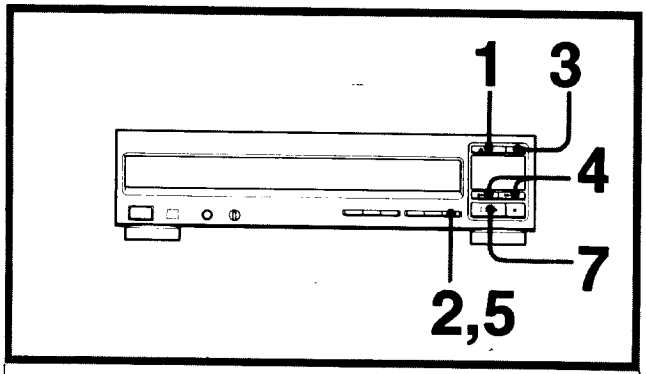
To stop music scan play
Press ■.

Starting play at the selection being played during music scan
Press ►II (or ► on the remote commander).

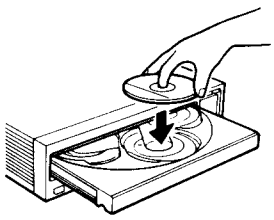
Selecting the "ALL DISCS" or "1 DISC" in the continuous play
- To scan the first selection of each disc, select "ALL DISCS".
- To scan the entire selections of a single disc, select "1 DISC".

Playing in a Desired Order – Program Play

You can make a program by designating up to 32 steps in the order you want them to be played. The unit will play the disc according to your program.

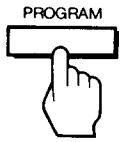


1



2

PROGRAM

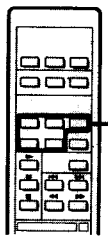


"PGM" is displayed.

3 Choose the disc.

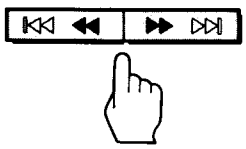
DISC SKIP

or



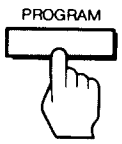
DISC 1 to 5 buttons (CDP-C305 only)

4 Choose the selection.



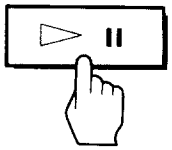
5

PROGRAM

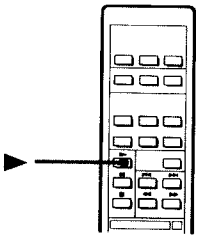


6 To program additional selections from the same disc, repeat steps 4, and 5.
To program additional selections from another disc, repeat steps 3, 4, and 5.

7 To start playing:



or



You can play up to 32 steps in the desired order.
You can program one selection or one disc in a step.

To program a whole disc

- Using the DISC SKIP button
  After step 1 and 2:
  1 Press DISC SKIP button "AL" is displayed in the window.
  2 Press PROGRAM.
  3 Go on to step 6.
- Using the DISC 1 to 5 buttons (CDP-C305 only)
  After step 1 and 2:
  1 Press the DISC 1 to 5 button to select the disc.
  2 Go on to step 6.

The whole disc is programmed as one step.

To program while observing the disc labels

You can program the selections with the disc compartment open.

To check the programmed selections

Press ▶▶ ▶▶I in the pause mode. Each time you press ▶▶ ▶▶I, the selections are displayed in the order they have been programmed.

To erase the last selection programmed
Press ■ once to erase or correct the program.

To erase all the selections programmed
Keep ■ pressed to erase or correct the program.

The program will be erased in the following situations
- ⏏ is pressed during program play.
- Power is turned off.

To display the total playing time of the program
Press the TIME button after programming and before playing. The time display will blink and each disc will be computed for the total programmed time. After the addition has been completed, the program time will be displayed for 3 seconds.
When other programs are added, and the TIME button is pressed, the program time of the added program only will be computed. On the other hand, if even one step is cleared, it will compute from the beginning.
If selections numbered 21 or higher is programmed, the "-- --.--" indication will appear instead of numbers.

To stop program play
Press ■. The last selection number programmed is displayed.
To resume play, press ▶II (or ▶ on the remote commander). Play begins from the beginning of the program.
You can play the same program repeatedly as long as you do not cancel program play or erase the program.

To cancel program play
Press CONTINUE and return to the continuous playing mode.
The program will be erased.

Tips on Editing Tapes

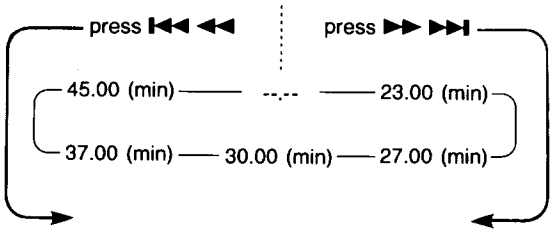
The following functions are convenient for editing your own tapes.

Fading out after a desired duration – Time Fade

You can have the play fade out at the end by designating the play duration.

To set time fade

1 Press TIME FADE during stop and pause.
"FADE" is displayed and "--.--" blinks in the window.
2 Set the desired play duration using the ⏮ ◀◀/ ▶▶ ⏭ buttons.
Each time you press ⏮ ◀◀/▶▶ ⏭, the display changes to give you the following duration.



To set the second, keep ⏮ ◀◀/▶▶ ⏭ pressed.
The second can be set by 10 seconds shift.

3 Press TIME FADE after setting the time.
The time display blinks quickly and disappears.
4 Press ▶II button to start the play.
Play starts to fade out five seconds before the time set, and the unit enters the pause mode.

To cancel time fade

- Keep ⏮ ◀◀/▶▶ ⏭ on the unit pressed.
- Press ◀◀/▶▶ on the remote commander.
- Press TIME FADE.

Fading in/Fading out

You can have the play fade in and fade out for 5 seconds. (for CDP-C305 only)

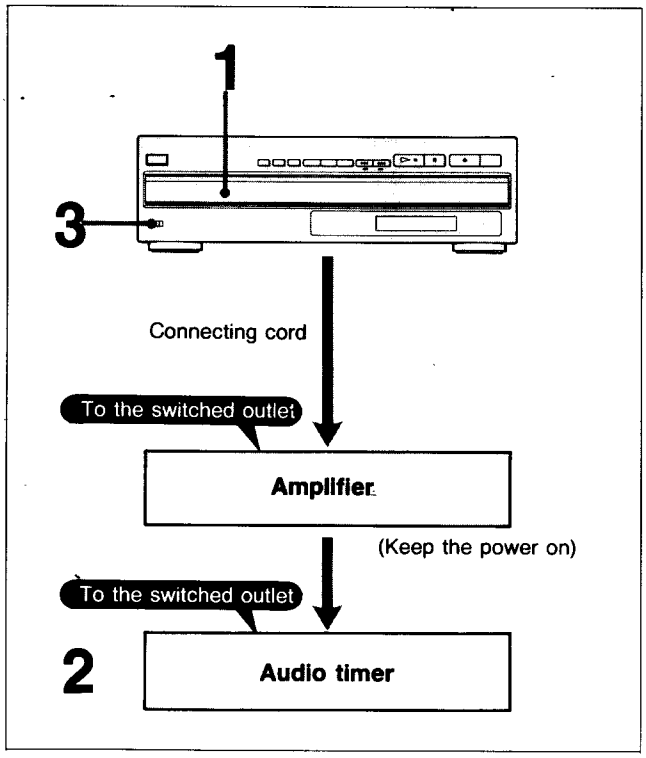
To end the play fading out

Press FADER when you want to start fading out.
II blinks in the window, and play fades out for 5 seconds and enters the pause mode.

To restart the play fading in

Press FADER in the pause mode.
▶ blinks in the window, and play fades in for 5 seconds.

Timer Activated Playing (for CDP-C301M only)



This function can be operated in the continuous play mode.

1 Insert a disc in the compartment.

2 Set the timer.

3 Set TIMER to PLAY.

Keep the POWER switch depressed on the CD player

When the timer is set, the power of the player will be cut off. At the time set, the CD player will be switched on and play will start.

When the timer-activated play ends

Be sure to set TIMER to OFF. If the TIMER switch is left at PLAY, the unit will automatically start playing the next time the power is turned on.

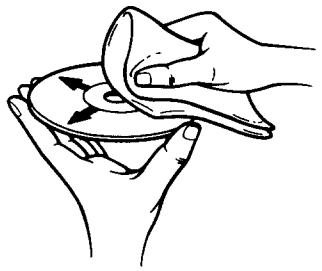
Maintenance

Cleaning the cabinet

Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

Cleaning discs

Before playing, clean the disc with the cleaning cloth. Wipe the disc from the center out.



Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for analog discs.

After playing, store the disc in its case.

Specifications

System	Compact disc digital audio system
Laser	Semiconductor laser ($\lambda = 780$ nm) Emission duration: continuous
Laser output	Max. 44.6 μW* * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.
Frequency response	2 Hz – 20 kHz ($^{+1.0}_{-1.2}$ dB)
Signal to noise ratio	More than 93 dB
Dynamic range	More than 90 dB
Harmonic distortion	Less than 0.05% (1 kHz)
Channel separation	More than 90 dB (1 kHz)
Wow and flutter	Below measurable limit
Outputs	LINE OUT (phono jacks) Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms PHONES (stereo phone jack) (CDP-C305/C205 only) Output level 0 – 10 mW (variable) (at 32 ohms)

General

Power requirements	Model for USA 120 V AC, 60 Hz Model for Australia (CDP-C305 only) 240 V AC, 50/60 Hz
Power consumption	11 W
Dimensions	CDP-C305/C205/C201 Approx. 430×110×385 mm (w/h/d) (17×4 3/8×15 1/4 inches) CDP-C301M Approx. 355×110×385 mm (w/h/d) (14×4 3/8×15 1/4 inches) not including projecting parts and controls
Weight	CDP-C305/C205/C201 Approx. 4.9 kg (10 lbs 13 oz), net CDP-C301M Approx. 5.0 kg (11 lbs), net

Supplied accessories

Audio signal connecting cord
(phono plug × 2 ↔ phono plug × 2) (1)
Remote commander (1) (CDP-C305 only)
R6 (size AA) batteries (2) (CDP-C305 only)
Operating Manual (1)

Design and specifications subject to change without notice.

Troubleshooting Guide

The following checks will assist in the correction of most problems which you may encounter with your unit. Should any problem persist after you have made these checks, consult your nearest Sony service facility. Before going through the check list below, first refer back to the connection an operating procedures.

Trouble	Causes	Remedy
No audio from one or both channels	Incorrect operation of the amplifier	Operate correctly.
	Loose connection	Connect the cords firmly.
Play does not begin.	No disc in the disc compartment	Put disc(s) in the compartment.
	The player is in the pause mode.	Press ▶II (▶ or II on the remote commander) to release pause.
	Moisture condensation	Leave the player turned on for about an hour.
	The disc is set upside down.	Set the disc with the label side up.
	The disc is tilted.	Set the disc correctly.
	The disc is extremely dirty.	Clean the disc.
Discs cannot be played continuously.	Play did not start from the disc in the DISC 1 tray.	Press DISC 1 to start play.
Remote commander does not operate the unit. (For CDP-C305 only)	The batteries are exhausted.	Replace both batteries.
	The remote commander is not pointed at the remote control sensor.	Point the remote commander to the sensor.
	There is an obstacle between the remote commander and the unit.	Remove the obstacle.
	The remote commander is too far from the unit.	Move closer.
Any operation is not possible.	The internal control program may not run.	Turn off the power and turn it on again.

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